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DATE MAILED: 04/11/2006

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/970,297	10/02/2001	Sean S. Chen	NSC-P05052	9656	
7590 04/11/2006			EXAMINER `		
WAGNER, MURABITO & HAO LLP			CUNNINGHA	CUNNINGHAM, TERRY D	
Third Floor Two North Market Street			ART UNIT	PAPER NUMBER	
San Jose, CA 95113			2816		

Please find below and/or attached an Office communication concerning this application or proceeding.

		(
•	Application No.	Applicant(s)				
	09/970,297	CHEN, SEAN S.				
Office Action Summary	Examiner	Art Unit				
·	Terry D. Cunningham	2816				
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet wit	th the correspondence address				
A SHORTENED STATUTORY PERIOD FOR REF THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a r - If NO period for reply is specified above, the maximum statutory perions - Failure to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the material patent term adjustment. See 37 CFR 1.704(b).	N. 1.136(a). In no event, however, may a re eply within the statutory minimum of thirty od will apply and will expire SIX (6) MONT ute, cause the application to become AB.	eply be timely filed (30) days will be considered timely. THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on <u>06</u>	September 2005.					
·— ·	·					
•						
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) Claim(s) 1-4,6-8,11-13,15-21 and 23 is/are p	pending in the application.					
	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
6) Claim(s) 1-4,6-8,11-13,15-21 and 23 is/are r	⊠ Claim(s) <u>1-4,6-8,11-13,15-21 and 23</u> is/are rejected.					
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and	l/or election requirement.					
Application Papers		·				
9) The specification is objected to by the Exami	ner.	·				
10)⊠ The drawing(s) filed on <u>20 October 2001</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
Applicant may not request that any objection to the						
Replacement drawing sheet(s) including the corre		•				
11) The oath or declaration is objected to by the						
Priority under 35 U.S.C. § 119						
12) ☐ Acknowledgment is made of a claim for forei a) ☐ All b) ☐ Some * c) ☐ None of:	gn priority under 35 U.S.C. §	119(a)-(d) or (f).				
 Certified copies of the priority docume 						
2. Certified copies of the priority docume						
 Copies of the certified copies of the properties of the	·	received in this National Stage				
* See the attached detailed Office action for a li		received.				
Attachment(s)		·				
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948))/Mail Date					
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 5) Notice of Informal Patent Application (PTO-152) 6) Other:						

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DETAILED ACTION

Drawings

The drawings were received on 22 February 2006. These drawings are approved for purposes of examination.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-4, 6-8, 11-13, 15-21 and 23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kadanka et al. (USPN 5,621,308) in view of newly cited art to Mietus (USPN 5,666,046). Kadanka et al. disclose, in Fig. 2, a circuit comprising: "a band-gap reference unit (70 and 73, less 54 and 57)"; "a buffer circuit (57)"; and "a single component voltage pull-up device (54)", wherein the "voltage pull-up device" has a "transistors (54)". Kadanka et al. does not expressly disclose that transistor 54 has a "less than 1.0 V_{BE}". However, it is notoriously well known, as expressly taught by Mietus (e.g., see Col. 1, lines 56-67), to use a voltage of 0.7 volts for the expect advantage of using a lower supply voltage (e.g., 0.8 volts). Therefore, it would have been obvious for one skilled in the art to manufacture transistor 48 with "less than 1.0 V_{BE}" for the expected advantage allowing for a lower supply voltage.

Examiner has fully considered Applicant's remarks for the above rejection and has not found them to be persuasive. In response to applicant's arguments against the references individually, one cannot show nonobviousness by attacking references individually where the

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rejections are based on combinations of references. See *In re Keller*, 642 F.2d 413, 208 USPQ 871 (CCPA 1981); *In re Merck & Co.*, 800 F.2d 1091, 231 USPQ 375 (Fed. Cir. 1986).

Applicant also questions concerning the claim language stating "said voltage pull-up device acts to reduce a required supply voltage". Examiner is not sure what the question here is. Nowhere does claim state what the "required supply voltage" is. Thus, it can only be seen that this voltage is purely arbitrary. Clearly, the circuit to Kadanka et al. acts to reduce some arbitrary "required supply voltage". As seen, the circuit to Kadanka et al. is only seen to require a voltage having at least three bipolar thresholds. Clearly, some bandgap circuits require four or more bipolar thresholds.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Terry Cunningham whose telephone number is 571-272-1742. The examiner can normally be reached on Monday-Thursday from 7:30 to 6:00.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy P. Callahan can be reached on 571-272-1740. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

TC April 10, 2006 Terry D. Cunningham

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